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acurite 06096 Iris (5-in-1) Color Display Instruction Manual

ACU·RITE

Instruction Manual
AcuRite Iris™ (5-in-1) Color Display
model 06096

Contents

Package Contents

1. Display with Tabletop Stand
2. Power Adapter
3. Instruction Manual

This product requires an AcuRite Iris Weather Sensor (sold separately) to be operational.
IMPORTANT
PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE
PRODUCT REGISTRATION
Register online to receive 1-year warranty protection **www.acurite.com/product-registration**
Questions? Visit **www.acurite.com/support**

SAVE THIS MANUAL FOR FUTURE REFERENCE.

Features & Benefits

Display

1. **AcuRite Iris Sensor Signal Strength**

2. **Current Outdoor Humidity**

    The arrow icon indicates direction humidity is trending.

3. **High/Low Humidity Records**

    Highest and lowest outdoor humidity recorded since midnight.

4. **Average Wind Speed**

    Average wind speed over the past 2 minutes.

5. **Peak Wind Speed**

    Highest speed from the last 60 minutes.

6. **Icon** 🔔

    Indicates an alarm has been activated.

7. **Rainfall History**

    Displays historical rainfall totals (see page 9).

8. **Current Indoor Temperature**

    The arrow icon indicates direction temperature is trending.

9. **Humidity Level Indicator**

    Indicates a high, low, or ideal humidity comfort level.

10. **Current Indoor Humidity**

    The arrow icon indicates direction humidity is trending.

11. **Date**

12. **Clock**

13. set **Button**

For setup preferences.

14. 🔆 **Button**

For momentary backlight and dimmer settings.

15. ⌃rain **Button**

For setup preferences and to cycle through rainfall history.

16. ⌄records **Button**

For setup preferences and to view all-time records.

17. (((◀))) **Button**

For alarm setup preferences.

18. 🔆 **Icon**

Indicates display is in auto-dimming brightness mode (see page 6).

19. **Moon Phase**

20. **Barometric Pressure**

The arrow icon indicates direction pressure is trending.

21. **12 to 24 Hour Weather Forecast**

Self-Calibrating Forecasting pulls data from your AcuRite Iris sensor to generate your personal forecast.

22. **Month/Week/Today Rainfall**

23. **Current Wind Speed**

24. **Current Wind Direction**

25. **Seasonal Display**

Heat Index calculation displays when the temperature is 80°F (27°C) or higher.

Dew Point calculation displays when the temperature is 79°F (26°C) or below.

Wind chill calculation displays when the temperature is 40°F (4°C) or lower.

26. **High/Low-Temperature Records**

The highest and lowest outdoor temperature was recorded since midnight.

27. **Previous 2 Wind Directions**

28. **Current Outdoor Temperature**

The arrow icon indicates direction temperature is trending.

Back of Display

BACK OF DISPLAY

1. **Integrated Hang Hole**

   For easy wall mounting.

2. **Backup Battery Compartment**

3. **Plug-in for Power Adapter**

4. **A-B-C Switch**

   ID code that must match

   AcuRite Iris sensor's A-B-C switch to ensure units synchronize.

5. **RESET BUTTON**

   Press and release to clear data.

   Press and HOLD for the full reset to factory defaults.

6. **Power Adapter**

7. **Battery Compartment Cover**

   (not shown)

SETUP

Display Setup

1. **Set the A-B-C Switch**

   Locate the A-B-C switch inside the battery compartment. Set the A-B-C switch to A, B, or C.
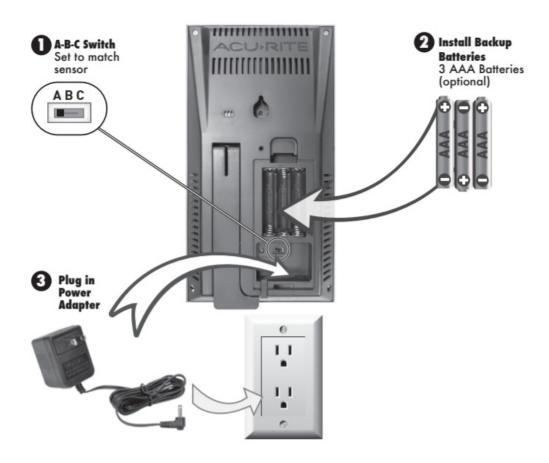
You must select the same letter choices for both the display and the sensor in order for the units to synchronize.

2. **Install or Replace Backup Batteries (optional)**

   1. Remove the battery compartment cover.

   2. Insert 3 x AAA alkaline batteries into the battery compartment, as shown. Follow the polarity (+/–) diagram in

   3. Replace the battery cover. the battery compartment.

3. **Plug-in Power Adapter**

   For the best performance, plug in the power adapter as the main power source for this product.

IMPORTANT: Batteries are a backup power source to preserve records in the event of a power outage. The power **adapter is recommended as the primary power source to enjoy the full functionality of this product.**

PLEASE DISPOSE OF OLD OR DEFECTIVE BATTERIES IN AN ENVIRONMENTALLY SAFE WAY AND IN ACCORDANCE WITH YOUR LOCAL LAWS AND REGULATIONS.

BATTERY SAFETY: Clean the battery contacts and also those of the device prior to battery installation. Remove batteries from equipment that will not be used for an extended period of time. Follow the polarity (+/-) diagram in the battery compartment. Promptly remove dead batteries from the device. Dispose of used batteries properly. Only batteries of the same or equivalent type as recommended are to be used. DO NOT incinerate used batteries. DO NOT dispose of batteries recharge non-rechargeable batteries. DO NOT short-circuit the supply terminals.

Set the Time, Date & Units
The display will automatically enter SET MODE after the unit has powered on.
Once in set mode, the preference you are currently setting will blink on the display.

To adjust the currently selected (flashing) item press and release the " rain or " records " buttons (press and HOLD to fast adjust).
To save your adjustments, press and release the "**set** " button again to adjust the next preference. The preference set order is as follows:
AUTO DST CHANGE (YES, NO)*

CLOCK HOUR
CLOCK MINUTE
CALENDAR MONTH
CALENDAR DATE
CALENDAR YEAR
TEMPERATURE UNITS (°F or °C)
WIND SPEED UNITS (mph, km/h, knots)
RAINFALL UNITS (inches or mm)
PRESSURE UNITS (inHg or hPa)
*If you live in an area that observes Daylight Saving Time, DST should be set to YES, even if it is not currently Daylight Saving Time.
You will automatically exit SET MODE if no buttons are pressed for 20 seconds.
Enter setup mode at any time by pressing the "**set**" button.

Display Backlight Settings
This weather station's color display features three different lighting settings:
High (100%) brightness, Medium (60%) brightness and Low (15%) brightness.

Using battery power alone, the backlight is available momentarily for 10 seconds by pressing the " 💡 " button. When the display is powered with the power adapter, the backlight remains on at 100% brightness. Press the "

💡 " button once to dim to 60% brightness. Press again to dim to 15%. Press a 3rd time to enter "AUTO DIM"

mode. The " 💡 " icon appears to the left of the time to indicate that auto-dim mode is ON.

NOTE: Pressing and holding the " 💡 " button for 5 seconds will disable the backlight. Once any button is pressed, the backlight will return to your selected setting.

AUTO-DIM MODE: Automatically adjusts display brightness based on time of day.
6:00 a.m. – 9:00 p.m. = 100% brightness
9:01 p.m. – 5:59 a.m.= 15% brightness

Placement for Maximum Accuracy
AcuRite sensors are sensitive to surrounding environmental conditions. Proper placement of both the display and the sensor are critical to the accuracy and performance of this unit.

 Display Placement
Place the display in a dry area free of dirt and dust. The display stands upright for tabletop use and is wall-mountable.
Important Placement Guidelines

- To ensure accurate temperature measurement, place units out of direct sunlight and away from any heat
  sources or vents.
- Display and sensor(s) must be within 330 feet (100 m) of each other.
- To maximize wireless range, place units away from large metallic items, thick
  walls, metal surfaces, or other objects that may limit wireless communication.
- To prevent wireless interference, place units at least 3 feet (.9 m) away from electronic devices (TV, computer,

microwave, radio, etc.).

OPERATION

Using the Professional Weather Center
Learning Mode
Self-Calibrating Forecasting uses a unique algorithm to analyze changes in pressure over a time period (called Learning Mode) to determine your altitude. After 14 days, the "LEARNING" icon disappears from the display screen. At this point, the self-calibrated
pressure is tuned in to your location and the unit is ready for superior weather prediction.
Weather Forecast
AcuRite's patented Self-Calibrating Forecasting provides your personal forecast of weather conditions for the next 12 to 24 hours by collecting data from the sensor in your backyard.
It generates a forecast with pinpoint accuracy – personalized for your exact location.

View the complete list of icons at **www.AcuRite.com/acurite-icons**

Barometric Pressure
Subtle variations in barometric pressure greatly affect the weather. This weather center displays the current pressure with an arrow icon to indicate the direction the pressure is trending (FALLING, STEADY, or RISING).
Moon Phase
Track the phases of the moon, conveyed through simple lunar phase icons:

Rainfall Tracking
This weather station features enhanced tracking of historical rainfall data.
Rain accumulation data is displayed for the current day, week, or month (most recent rainfall total). Press the "

 " button to review historical rainfall records.
Records are shown in the following order:
TODAY RAIN TOTAL
THIS WEEK RAIN TOTAL
THIS MONTH RAIN TOTAL
PREVIOUS MONTHLY TOTALS WITH RAIN (up to 12 months prior)
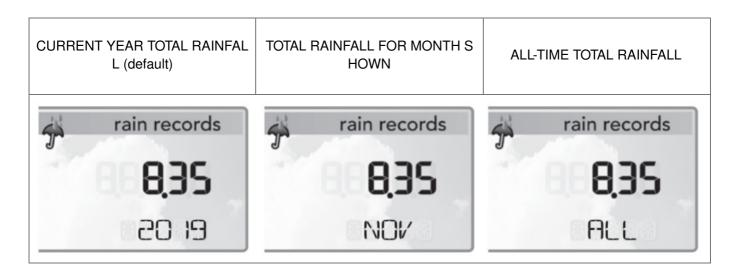CURRENT YEAR TOTAL
PREVIOUS YEAR TOTAL
ALL-TIME TOTAL
Rainfall Data

TODAY	WEEK	MONTH
Displays rainfall recorded TODAY since 12:00 am, if applicable.	If there hasn't been any rainfall today, the current week's rainfall (Sunday to Saturday) is displayed, if applicable.	If there hasn't been any rainfall this week, the current month's rainfall is displayed.

Rainfall Records

CURRENT YEAR TOTAL RAINFALL (default)	TOTAL RAINFALL FOR MONTH SHOWN	ALL-TIME TOTAL RAINFALL

Programmable Alarms

This display features programmable alarms that sound an alert to notify you when a value (for outdoor temperature, humidity, wind speed, or rainfall) has been reached or exceeded. When an alarm is triggered, the display emits an audible beep and flashes data in the affected category. You can customize the alarms by turning ON or OFF the alarms you'd like activated or deactivated, and by inputting your own values to trigger the alarm.

Set up an Alarm

1. Press and release the " ((( ))) " button until the reading for which you wish to set an alarm is shown on the display. " ((( ))) " will not be shown.

2. Press and release the " rain " or " records " buttons until " ((( ))) " appears.

3. Press and release the " **set** " button. The current alarm value will flash on the display.

4. Press and release the " rain " or " records " buttons to adjust the alarm's value.

5. Press and release the " **set**" button to save the alarm value.

6. Press and release the " ((( ))) " button to cycle to the next reading.

Disable an Alarm

1. Press and release the " ((◀)) " button until the reading for which you wish to disable an alarm is shown on the display. " ((◀)) " will be shown.

2. Press and release the " ︿ rain " or " ﹀ records " buttons until " ◣ " appears.

3. Press and release the " ((◀)) " button to cycle to the next reading.

4. Repeat steps 1-3, as needed.

NOTE: To disable ALL alarms at once, press and HOLD the " ((◀)) " button for 10 seconds.
You will automatically exit the alarm SET MODE if no buttons are pressed for 10 seconds. Enter alarm SET MODE at any time by pressing the " ((◀)) " button.

Troubleshooting

Problem	Possible Solution
No outdoor sensor reception ▁▂▃▄ no bars	• Relocate the display and/or the AcuRite Iris sensor. The units must be within 330 ft (100 m) of each other. • Make sure both units are placed at least 3 feet (.9 m) away from electronics that may interfere with the wireless communication (such as TVs, microwaves, computers, etc). • Use standard alkaline batteries (or lithium batteries in the sensor when the temperature is below –4ºF/-20ºC). Do not use heavy-duty or rechargeable batteries. **NOTE:** It may take a few minutes for the display and sensor to synchronize after batteries are replaced. • **Synchronize the units:** 1. Bring both the sensor and display indoors and remove the power adapter/batteries from each. 2. Reinstall batteries in the outdoor sensor. 3. Reinstall power adapter/batteries in the display. 4. Let the units sit within a couple of feet of each other for a few minutes to gain a strong connection.

Outdoor temperature is flashing or showing dashes	Flashing of the outdoor temperature may be an indication of wireless interference. • Make sure the A-B-C switch in the battery compartments of both the display and sensor are switched to the same letter. You may choose A, B, or C; but both units must match to sync up. Sometimes changing to a different channel can help.
Inaccurate forecast	• The Weather Forecast icon predicts conditions for the next 12 to 24 hours, not current conditions. • Has the Learning Mode icon disappeared from the display? Learning Mode must complete before forecast and pressure will be accurate. • Allow unit to run continuously for 33 days. Battery removal or resetting the display will restart Learning Mode. After 14 days, the forecast should be fairly accurate, however, Learning Mode calibrates for a total of 33 days.
Inaccurate temperature or humidity	• Make sure both the display and AcuRite Iris sensor are placed away from any heat sources or vents (see page 7). • Make sure both units are positioned away from moisture sources (see page 7). • Make sure the AcuRite Iris sensor is mounted at least 1.5 m (5 ft) off of the ground. • Calibrate indoor and outdoor temperature and humidity (see page 7).
Display screen not working	• Check that the power adapter is plugged into the display and an electrical outlet. • Check that the batteries are installed correctly. Batteries may need to be replaced. • Reset the display by pressing and holding the RESET button for 10 seconds, located in the battery compartment of the display. The date and time will need to be entered after a reset.
If your AcuRite product does not operate properly after trying the troubleshooting steps, visit **www.acurite.com /support**.	

Care & Maintenance

Display
Care Clean with a soft, damp cloth. Do not use caustic cleaners or abrasives. Keep away from dust, dirt, and moisture. Clean ventilation ports regularly with a gentle puff of air.
Calibration

The indoor and outdoor temperature and humidity readings, and barometric pressure can be calibrated on the display to improve accuracy. Calibration can improve accuracy when sensor placement or environmental factors impact the data accuracy.]

1. To access calibration mode, press AND HOLD the " rain ", "**set**", and "records " buttons simultaneously for at least 5 seconds.

2. To adjust the currently selected (flashing) item, press and release the " rain " or" records" buttons to calibrate the data value higher or lower from the actual reading.

3. To save your adjustments, press and release the "**set**" button to adjust the next preference. The "⚙" icon will remain illuminated next to calibrated values. The preference set order is as follows:

    OUTDOOR TEMPERATURE

    OUTDOOR HUMIDITY

    INDOOR TEMPERATURE

    INDOOR HUMIDITY

    BAROMETRIC PRESSURE (must be set to MANUAL mode to calibrate)*

    *To change from AUTO to MANUAL pressure mode and vice versa, press AND HOLD the "set" button for 5-7 seconds. The display indicates the current pressure mode selected, "AUTO" or "MANUAL". Press and HOLD the " set " button for 5-7 seconds to return to AUTO mode.

After 5-10 seconds of inactivity, the display will save the adjustments and exit calibration mode.

NOTE: Calibrations will be erased if the display is reset or if batteries are removed and the power adapter is unplugged.

Specifications

TEMPERATURE RANGE	Indoor: 32°F to 122°F; 0°C to 50°C
HUMIDITY RANGE	Indoor: 1% to 99%
WIND SPEED	0 to 99 mph; 0 to 159 km/h
WIND DIRECTION INDICATORS	16 points
RAINFALL	0.01 inches (0.25 mm) and up
WIRELESS RANGE	330ft / 100m depending on home construction materials
OPERATING FREQUENCY	433 MHz
POWER	5V AC, 250mA adapter | 3 x AAA alkaline batteries (optional)

FCC Information

This device complies with part 15 of FCC rules. Operation is subject to the following two conditions:

1. This device may NOT cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.
Such modifications could void the user's authority to operate the equipment.
This device complies with Industry Canada licence-exempt RSS standard(s).
Operation is subject to the following two conditions:
(1) This device may not cause interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation of the device.

Customer Support

AcuRite customer support is committed to providing you with best-in-class service. **For assistance,** please have the model number of this product available and contact us in any of the following ways:

Chat with our support team at **www.acurite.com/support**

Email us at **support@chaney-inst.com**
► Installation Videos
► Instruction Manuals
► Replacement Parts

IMPORTANT
PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE
PRODUCT REGISTRATION
Register online to receive 1-year warranty protection
www.acurite.com/product-registration

Limited 1-Year Warranty

AcuRite is a wholly-owned subsidiary of Chaney Instrument Company. For purchases of AcuRite products,

AcuRite provides the benefits and services set forth herein.

For purchases of Chaney products, Chaney provides the benefits and services set forth herein. We warrant that all products we manufacture under this warranty are of good material and workmanship and, when properly installed and operated, will be free of defects for a period of one year from the date of purchase.

Any product which, under normal use and service, is proven to breach the warranty contained herein within ONE YEAR from the date of sale will, upon examination by us, and at our sole option, be repaired or replaced by us. Transportation costs and charges for returned goods shall be paid for by the purchaser. We hereby disclaim all responsibility for such transportation costs and charges.

This warranty will not be breached, and we will give no credit for products that have received normal wear and tear not affecting the functionality of the product, been damaged (including by acts of nature), tampered, abused, improperly installed, or repaired or altered by others than our authorized representatives.

Remedy for breach of this warranty is limited to repair or replacement of the defective item(s). If we determine that repair or replacement is not feasible, we may, at our option, refund the amount of the original purchase price.

THE ABOVE-DESCRIBED WARRANTY IS THE SOLE WARRANTY FOR THE PRODUCTS AND IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. ALL OTHER WARRANTIES OTHER THAN THE EXPRESS WARRANTY SET FORTH HEREIN ARE HEREBY EXPRESSLY DISCLAIMED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

We expressly disclaim all liability for special, consequential, or incidental damages, whether arising in tort or by contract from any breach of this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

We further disclaim liability from personal injury relating to its products to the extent permitted by law. By acceptance of any of our products, the purchaser assumes all liability for the consequences arising from their use or misuse. No person, firm, or corporation is authorized to bind us to any other obligation or liability in connection with the sale of our products. Furthermore, no person, firm, or corporation is authorized to modify or waive the terms of this warranty unless done in writing and signed by a duly authorized agent of ours.

In no case shall our liability for any claim relating to our products, your purchase, or your use thereof, exceed the original purchase the price paid for the product.

Applicability of Policy

This Return, Refund, and Warranty Policy apply only to purchases made in the United States and Canada. For purchases made in a country other than the United States or Canada, please consult the policies applicable to the country in which you made your purchase. Additionally, this Policy applies only to the original purchaser of our products. We do cannot and do not offer any return, refund, or warranty services if you buy products used or from resale sites such as eBay or Craigslist.

Governing Law

This Return, Refund, and Warranty Policy are governed by the laws of the United States and the State of Wisconsin. Any dispute relating to this Policy shall be brought exclusively in the federal or state courts having jurisdiction in Walworth County, Wisconsin; and purchaser consents to jurisdiction within the State of Wisconsin.

ACU▸RITE®

www.AcuRite.com

Printed in China
06096 INST 050421

Documents / Resources

acurite 06096 Iris (5-in-1) Color Display [pdf] Instruction Manual
Iris 5-in-1 Color Display, 06096

References

- ⟩ **Home -**
- ⟩ **AcuRite Weather Monitoring | #1 Weather Station Brand in North America**
- ⟩ **Icon Definitions and Terminology | AcuRite**
- ⟩ **Patented Technology | AcuRite**
- ⟩ **Customer Support & FAQs | AcuRite Weather Monitoring**